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חוק הפטנטים, התשכ"ז-1967
PATENTS LAW, 5727-1967

בקשה לפטנט
Application for Patent

מספר: Number	125221
תאריך: Date	06-07-1998
הוקדם/נרחה Ante/Post-dated	

אני, (שם המבקש, מענו - ולגבי גוף מאוגר - מקום התאגדותו)
I (Name and address of applicant, and, in case of body corporate, place of incorporation)

16 קונסטת בע"מ ח.ג. 51-264-126-7
בן זורין 131/2 ת.ד. 7339 ירו' 56209

ששמה הוא _____
of an invention, the title of which is

הצ'ן בעל אמצאה מכח
Owner, by virtue of

הפעלה בלתי גורמת לתנועה באמצעות הקול באט'ג'י (בעברית)
(Hebrew)

Motion activation using passive sound source (באנגלית)
(English)

הכאן מבקש בזאת כי ינתן לי עליה פטנט
hereby apply for a patent to be granted to me in respect thereof.

• בקשת חלוקה • Application of Division • בקשת פטנט מוסף • Application for Patent Addition		• דרישה דין קדימה • Priority Claim		
מבקשת פטנט from Application מס' _____ dated _____ מיום	לבקשה/לפטנט to Patent/Appl. מס' _____ dated _____ מיום	מספר/סימן Number/Mark	תאריך Date	מדינת האגור Convention Country
יפוי כח: כללי/מיוחד - רצוף בזה / עוד יוגש P.O.A.: general / individual -- attached / to be filed later -- הוגש בענין _____ המען למסירת הודעות ומסמכים בישראל Address for Service in Israel ת.ד. 7339 ירו' 56209 חתימת המבקש Signature of Applicant TOY CONTROL LTD. 51-264126-7		היום _____ בחודש _____ שנת 1998 of the year		

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הפעלה בתגובה לתנועה באמצעות מקור קול
פאסיבי

Motion activation using passive sound
source

טוי קונטרול בע"מ

Toy Control Ltd.

sound source

Assignee: Toy Control Ltd.

Abstract

10 A technique is presented to activate various kinds of toys and computer
games. The technique uses a sound created using bells rattlers or any
other device that creates acoustic waves in response to motion. The
transmitted sound is measured using a microphone in the device to be
operated. The technique is applicable for several applications as Toys,
15 Computer interface, Computer games and Home automation.

Description

The method

A low cost, non-contact object movement detection method, using sound generated from bells rattlers or any other sound-making device (**Fig 1**)

The use of a device that creates sound waves in response to movements eliminates the need in a power source to create the sound or to measure the movements.

25 The sound generating device can be placed on a sock (Fig 2), wrist, belt,
necklace, a bone (Fig 3), or any other worn or held device.

Major parts

1. A sound making means, generating a distinctive sound when moved attached to an object.
- 5 2. At least one acoustic receiver to sense the sound.
3. Means to distinct the sound from the background noise
4. Means to translate the distinct sound into control commands

10 **Usage**

Toys

Follower toy (Fig 3)

Mobile that reacts to movements (Fig 2)

Computer games

15 Home automation and Handicapped

Operate electrical products

Turn on and off light

Turn on and off air conditioning

Claims

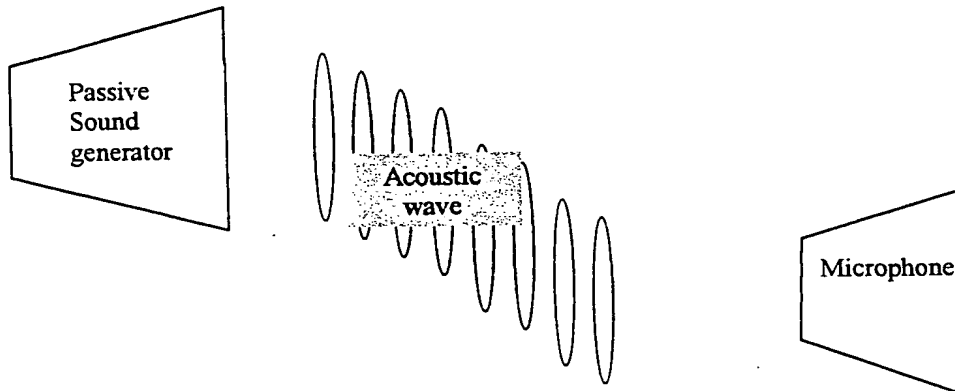
- 5 1. A method for measuring movements of a moving objects comprising:
- A sound making means, generating a distinctive sound when moved attached to an object.
 - At least one acoustic receiver to sense and receive the aforesaid sound.
 - 10 • Means to distinct the aforesaid received generated sound from the background noise
 - Means to translate the aforesaid received distinct sound into control commands
- 15 2. The method of claim 1 more than one sound making means in order to distinct the movements of several objects.
3. The method of claim 1 wherein said acoustic receiver is the computer or toy microphone.
4. The method of claim 1 wherein said sound making device is attached to babies sock or wrist.
- 20 5. The method of claim 1 wherein said sound making device is a bell.
6. The method of claim 1 wherein sound repetitions is translated to a control command.
7. The method of claim 1 wherein said translation is from sound duration to a control command.
- 25 8. The method of claim 1 wherein Acoustic relative power in one of plurality of receivers is used in order to calculate moving objects' direction in relation to the acoustic receivers.
9. The method of claim 1 wherein Acoustic relative phase in one of plurality of receivers is used in order to calculate moving objects' direction in relation to the acoustic receivers.
- 30

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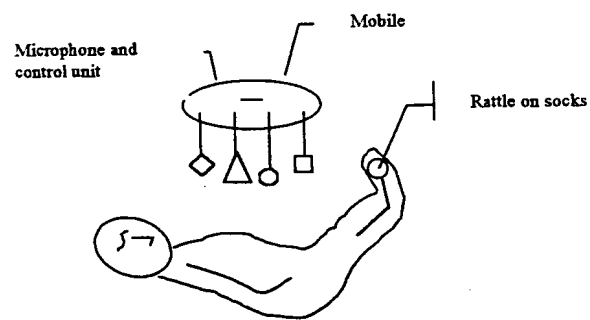
Applicant:

40 ~~TOY CONTROL LTD.~~
~~51-264126-3~~
~~Toy Control~~

1/3



2/3



3/3

